

MARYLAND BIRDLIFE

Bulletin of the Maryland Ornithological Society, Inc.

Cylburn Mansion, 4915 Greenspring Ave., Baltimore 9, Md.



THE MARYLAND ORNITHOLOGICAL SOCIETY, INC.
Cylburn Mansion, 4915 Greenspring Ave., Baltimore 9, Maryland

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AN EXCURSUS FROM ASTRONOMY: MIGRATING BIRD OBSERVATIONS

Robert H. McCracken

During extended telescopic observing periods, one frequently sees birds cross the lunar or solar disc, occasionally at quite high altitudes. I suppose I have ignored many hundreds of such transits, perhaps while some ornithologist was ignoring a rare class-III solar flare. While examining sunspots near noon on June 4, 1961, however, I suddenly became aware of a surprising number and altitude of birds transiting the sun. A long-standing semi-question emerged: How high do birds fly?

A delightful distraction! I drew a 75 mm. diameter circle on white bond. Within it, with the aid of a magnifying loupe, a scale, and a finely sand-sharpened pencil, I drew a series of marks spaced 0.5 mm. apart, and a series of small dots, which I measured and labeled-- 0.25 mm., 0.4 mm., 1.0 mm. With the image of the solar disc projected* by my 83 mm.-aperture refractor to fit into the 75 mm. circle, the bird images could quickly and easily be measured. Hand-holding the paper on a clipboard so the scale or an appropriate dot could be brought alongside the image. I found the tiniest images to be smaller than the smallest (0.25 mm.) dot, or about 0.2 mm. Because of the irregular image, the flapping wings, etc., I simply estimated the mean diameter of the image - somewhat shorter than the wingspan, but perhaps somewhat longer than the body.

Of course, most birds were at lower altitudes; there were many large, out-of-focus images. At times there were as many as ten per minute, but only occasional ones were in the apparently highest-altitude group. Of these there seemed to be two speed groups,

*** Never look directly at the sun, even for an instant, with any telescope or binoculars, unless, of course, it is especially equipped for the purpose. Dark filters at the eyepiece are not sufficient. They frequently crack because of the heat, quickly dumping the concentrated solar rays into the eye. Permanent blindness will likely result.**

The solar image may be safely projected onto a screen held a short distance from the eyepiece by simply refocussing. Then a group may observe.

one crossing the sun in about five seconds, the other requiring about 20 seconds for the transit. All seemed to be travelling in the same general direction, approximately east-northeastward. With one exception all were flying hard, as with a purpose. The one fellow seemed to loiter a bit, entering the disc from the west, hesitating, drifting for a time without flapping, as I recall, then turning off about 50° or 60° toward the north. He appeared to be a tired or confused member of the 20-second group.

I was rather startled by a quick mental approximation of altitude, whereupon I drew a 30 cm. circle and confirmed the measurements. On the larger image, the birds were about 0.8 mm. across.

The sun's diameter subtends an angle at the earth of very nearly one-half degree. An image diameter of 0.2 mm. on the 75 mm. projected solar image, then, is $0.2/75 \times 1/2$ degree, or $1/750$ degree, or $1/43,000$ radian. For small angles, where $\tan \theta = \theta$, the distance of the bird is 43,000 diameters. At noon on June 4 the sun's declination is about 22° north, which at my latitude, 39° , corresponds to an altitude of 73° above the southern horizon. The altitude of the bird is $\sin 73^{\circ} \times$ distance, or $0.97 \times 43,000 = 42,000$ diameters! A 12 - inch bird at 42,000 feet? A nine-inch bird at 31,000 feet? A six-inch bird at 21,000 feet? Or a four-inch bird at 14,000 feet? Winds both at the surface and at the 19,000 foot level were nearly calm, as a high pressure area was centered over West Virginia at that time.

Consulting Mr. Chandler S. Robbins, Biologist, of the Patuxent Wildlife Research Center, I learned that there were warblers migrating that weekend, somewhat later than usual. The observed directions seemed rather more easterly than one would expect, Mr. Robbins said, but after checking the winds aloft, he felt that the direction was accountable. But the altitude!

Since then I have checked briefly on several occasions. The few transits I saw during the summer were low, often out-of-focus images, and too few to define any pattern. With the onset of autumn, I expected more observations. A short check made near noon on September 23, 1961, from 12:18 to 12:25 E.S.T. showed no birds, although surface winds at National Airport were from WNW at 5 knots (U. S. Weather Bureau).

The moon was nearly full on the night of September 23-24, when a short observation near the meridian - from 00:10 to 00:25 - yielded 21 birds. Twelve more passed in another seven-minute period. The smallest image, if that of a 6-inch bird, was at about 4,000 feet; most appeared to be under 2,500 feet. Directions were generally toward the southwest. Surface winds were from the south at 3 knots.

On September 24, from 11:12 to 11:42 E.S.T., thirteen birds transited the sun, mostly in the first few minutes. Winds were 5 knots from NNE at 11, 2 knots from ENE at noon. During the last half of the observation, between the 10th and 11th transits, there was a ten-minute period which yielded not a single bird.

Of the thirteen, the smallest image was about 0.75 mm. in diameter, corresponding at this time to an altitude for a 6-inch bird of about 4,500 feet. Most were lower.

In ten minutes on the night of September 24-25, from 11:35 to 11:45 E.S.T., I saw 35 birds cross the face of the full moon. The smallest, if a 6-inch bird, was at a distance of approximately 4,700 feet, or an altitude of 3,600 feet. It was interesting to see some of those at an intermediate altitude "crabbing" into a high wind. They were facing somewhat northwest, but flying southwest.

Although the rate had dropped considerably by the following Sunday, On October 1, in 23 minutes near noon I logged five birds that crossed the sun - two at about 4,500 feet, one at 5,250 feet, and one at nearly 6,500 feet. The fifth one was at a low altitude. All these altitudes assume a six-inch bird, and are corrected for the solar angle. Surface winds were NNE at 3 knots.

Although my bird observations as an astronomer are entirely too few, too short, and too irregular to hazard any generalized conclusions, they have raised a few questions in my mind, and have prompted me to comment - albeit naively - on the subject:

1. Distribution, both spacial and temporal, seems irregular. Flight patterns seem either lumpy or streamy, probably the latter, judging from breaks in the observations. Groups of appropriately -spaced observers projecting the sun might determine both distribution and altitude. Perhaps they have.

2. Some low, out-of-focus birds transit rapidly enough to be easily missed.

3. Sometimes birds at different altitudes may consistently fly in different-even opposite-directions. Perhaps because of winds.

4. Some birds may fly higher in daylight than at night, perhaps because of better visibility. Measurements of altitudes against the crescent or quarter moon compared with those against the full moon may be indicative. I understand that counts have been made in this way.

5. Direct telescope observations of the day sky are likely to suffer from "empty-field myopia", because eyes tend to focus not at infinity, but perhaps at arm's length, when not guided by objects in the field. The small images of high-altitude birds, out of focus on the retina, may thus usually be missed. A very fine reticle placed precisely at the prime focus and always kept in view while observing should solve the problem. It could also be used to measure the images. If displaced by a precisely-controlled distance from the prime focus, it may assist in making measurements within only a selected altitude range. Venus or a bright star might sometimes be used to keep the eye focused at infinity in the daytime, but finding and keeping Venus or a star in the field of vision entails complications.

6. There must be an awful lot of birds!

5120 Newport Avenue, Chevy Chase

SANDHILL CRANE ADDED TO MARYLAND LIST

Richard L. Kleen

An immature Lesser Sandhill Crane (Grus canadensis canadensis) was shot in a cornfield near McDaniel, Talbot County, Maryland on November 19, 1961. This is the first record of the Sandhill Crane from the State of Maryland, and the third record of this subspecies from the United States east of the Mississippi River.

The bird was brought to the writer for identification. Measurements of the culmen indicate that it is a Lesser Sandhill Crane, the subspecies that breeds in northeastern Siberia, Alaska, Yukon, and the Northwest Territories. Normally this race spends the winter in California, Arizona, New Mexico, Texas, and Mexico.

According to Dr. Lawrence H. Walkinshaw in his monograph, The Sandhill Cranes (Cranbrook Inst. of Sci. Bull. 29, 1949), there have been only two previous records of the canadensis subspecies of the Sandhill Crane in the part of the United States lying east of the Mississippi River. One was a bird recorded in Natick, Kent County, Rhode Island on October 8, 1889. The second was recorded at Mt. Pleasant, Charleston County, South Carolina on October 21, 1890. There also are two records for Prince Edward Island, Canada, in 1905.

The crown and forehead of the Talbot County specimen were less red and less carunculated than in typical adult birds, and many of the wing coverts and some of the secondaries were tipped with brown. These are the two prime indications that the bird was immature.

Of the four subspecies of the Sandhill Crane, three have culmen measurements that range from 113 to 159 millimeters. The canadensis race has culmen measurements that range between 69 and 110 millimeters. As the culmen of the specimen in question measured 75 millimeters, we conclude that it was of this small subspecies and constitutes an authentic record of the Lesser Sandhill Crane.

St. Michaels

BROWN THRASHER WINTERING IN PIEDMONT

Hervey Brackbill

It appears to be extremely unusual for a Brown Thrasher (Toxostoma rufum) to winter in the Piedmont of our State. In "Birds of Maryland and the District of Columbia," North American Fauna 62:241, 1958, Stewart and Robbins record no such occurrence through 1955, and a search of Maryland Birdlife for the years since then discloses only two records prior to the 1960-61 season. In the winter of 1956-57 a Brown Thrasher was seen at Fullerton, just outside the northeastern corner of Baltimore City; no dates are given (Maryland Birdlife 13:39, 1957). And from December 15, 1958, through March 28, 1959, one wintered at the Robbins' feeding station just west of Laurel (Maryland Birdlife 15:67, 1959).

For the severe winter of 1960-61 several occurrences were reported (Maryland Birdlife 17:61, 1961), and I have another to add. While the heavy snow of mid-December blanketed the area, a Brown Thrasher appeared at my home in Larchmont, which is just outside the mid point of Baltimore's western boundary, and spent the winter, coming to my feeders daily. It was first seen December 19, was color-banded January 8, and was present through March 28. The similarity of these wintering dates to those Robins observed in 1958-59 is remarkable. Not until April 17 did I begin to see migrant or summer-resident thrashers.

What patterns might appear if we knew the full stay of all unusual winterers that birders encounter? Such close correspondences, however, surely are not always to be expected; a thrasher banded at White Marsh on December 15, 1960, was seen only through January 27 (Maryland Birdlife 17:61, 1961).

2620 Poplar Drive, Baltimore 7

IS THE CARDINAL RED?

Richard L. Kleen

There is always great excitement at the compilation of a Christmas Bird Count. Reports of unusual species observed or of unusual numbers recorded are met with applause or with scoffing—depending upon the nature of the listener or sometimes upon the nature of the reporter. So it was to be expected that a golden-yellow Cardinal, reported on the St. Michaels Christmas Count on Jan. 1, 1961, would cause the skeptics to be incredulous. The observers, Jan Reese, Joe Spurry, and Chris Bryan, defended their case with eloquence, but there were still unbelievers, and I am sure that many drove home that evening firm in the belief that the Golden Cardinal was a purely illusory creature—the figment of someone's post-New Years Eve imagination. However, the score or so of birders who have since seen this unusual bird should be large enough in number to convince the most dedicated skeptic.

The underparts of the bird are bright yellow, similar in coloration to the underparts of the meadowlark. The yellow extends from the breast to the crissum. The crest, head, neck, and rump are of the same bright yellow color. The back, the wings, and the tail are olive-yellow. The throat, lores, and area surrounding the bill are black, as in the typical male Cardinal.

The actions and notes of the bird are inseparable from those of the normally plumaged individual. Its wintering area includes an overgrown hedge, a series of brush piles, and a number of twenty-foot cedar trees all within an area of about two acres. The only other fringillids seen during all observations in the area were a number of White-throats and Song Sparrows. There also was a Mockingbird that intermittently drove the Cardinal from a favorite perching position on one of the brush piles. On a number of occasions a normally plumaged female Cardinal (Richmondia cardinalis) was seen to be present in the area, but no fraternization was noticed.

The reasons for this aberrant plumage have been constantly discussed in Talbot County since the discovery. Various suggestions have been put forth, but the following has received most credence. Wallace (1950:50) informs us that the colors which birds assume are derived from two sources: from the refraction of light rays and from natural pigmentation in the feathers.

With few exceptions, the greens and blues that we see in the feathers of birds are derived from the refraction of light rays by feather structure. We are not concerned with this type of coloration at present.

Most of the colors observed in birds are derived from pigmentation. There are only four pigments present in feathers: a black or blackish-brown pigment known as eumelanin, a pigment called phaeomelanin that ranges from dull brown to dull yellow, a red pigment known as zooerythrin, and a yellow known as zooanthin. The countless shades and hues found in the plumages of birds are based on the concentration of the pigment color or on combinations in various strengths of two or more of the basis pigment colors. When the pigment-producing cells of a bird do not function properly, an absence of color results. Such a bird is albinistic; it is known as an albino.

Looking at the bright redness of the Cardinal, it would be assumed that its color is derived entirely from the red pigment, zooerythrin. Is it not possible that, in reality, the color of the Cardinal is caused by a combination of the red and yellow pigments, with the strength of the red pigment such that the yellow zooanthin is not noticeable in the normal bird? With out aberrant individual, the factors needed for red pigment production may be lost. However, the yellow pigment-producing cells may be behaving normally. Thus we would have an albino, as far as the red pigment is concerned. The absence of the red color permits the yellow to be seen and we have a yellow Cardinal.

The coloration of the back also posed an interesting question. It has been described by observers as greenish-yellow or olive-yellow. What possible combination or concentration of pigments would produce such a color? Allen (1925:60) mentions that the combination of eumelanin and zooanthin, in concentrated form, will produce a yellowish-olive-green color.

Thus it would appear that, instead of the Cardinal deriving his color entirely from the red zooerythrin, its coloration is derived from the combination of three concentrated pigments: brown-black eumelanin, red zooerythrin, and yellow zooanthin. The absence of red pigmentation in this individual has made a hidden fact more obvious to us. It would appear that additional observations of aberrant individuals may give us more clues to the mysteries concerning pigmentation.

Literature cited

Allen, Glover M. 1925. *Birds and Their Attributes*. Marshall Jones.
Wallace, George J. 1955. *An Introduction to Ornithology*. MacMillan.

ROCK RUN SANCTUARY'S FIRST YEAR

C. Douglas Hackman

Rock Run Sanctuary is now over one year old!

In this first year Rock Run has been the scene of many varied activities. Many MOS members have devoted a great deal of time and effort to such important projects as: the repair of the house, the establishment and maintenance of a lawn, the rebuilding of stone walls and steps, the erection of bird houses and feeders and the establishment and marking of bird trails. Others, through gracious contributions, have provided the furnishings for the house and the tools with which the many jobs have been accomplished. The Junior Group, under Mrs. Schaffer's direction, has made frequent visits in search of everything from insects to birds. Several scout groups and nature clubs have come out to be instructed and guided around the trails by some of our experienced leaders. This summer a Breeding Bird Census was made on the study area and a Winter-Bird Population study is being planned. An Operation Recovery Banding Station was operated there this fall and close to 500 birds of 49 species were banded. These included a Saw-whet Owl, Sharp-shinned Hawk and Connecticut and Mourning Warblers. And finally, over 1,000 MOS members and their friends signed the Sanctuary register and observed 145 different species of birds within the Sanctuary Boundaries.

A wildlife sanctuary, if it is to reach its full potential, should have several important functions. First, as implied by the name, it should be a haven for all forms of plant and animal life. Secondly and equally important, it should serve as an educational center that is designed to demonstrate to the public the need and absolute necessity for a sound and comprehensive conservation program. Thirdly, it should be the center of an intelligent research program with the stated purpose of contributing to our understanding of the vital needs and requirements of our existing wildlife populations. Finally, and rightfully so, a sanctuary should serve as a recreation area for the members of the organization to which it belongs - a place to which they can retire, away from and unhindered by the public, in order to study and observe. The first year of activity, and the development that has resulted, have been fully in keeping with these aims.

A great deal has been accomplished. However, now is the time to start taking fuller advantage of the many fine opportunities offered to us by Rock Run's unique habitats and excellent bird, plant and animal populations. Up to the present time only a few of the many visitors have taken the time to fill out a checklist. There are no lists of the various species of plants identified, or of animals. As yet, we don't even know what we have!

Our next step should be to record such lists and to learn just where everything is and how abundant it is. Unless we do so, several years from now we will have no idea regarding changes that may have occurred.

Now is the time to begin recording such things as arrival and departure dates of birds. Now is the time to determine the normal summer and winter bird populations. As our cities continue their relentless expansion, eating into our farmland and woods, such information will become increasingly important. Today, it is relatively easy to accumulate information. Ten or twenty years from now the same information will be much harder to obtain and evaluate. Future ornithologists will not have the information necessary for accurate evaluations of the changes wrought by the spread of urbanization unless the observers of today have the foresight and initiative to gather it.

Arrival and departure dates or peak migration dates with actual counts and estimates of migrating flocks are of great importance - especially when such counts are further documented by comments on flight direction, estimated altitude and speed of migrants, time of day and a short, concise weather summary. Observations on virtually every phase of birdlife can be of significant value. A thorough knowledge of our native plants, their location and abundance is imperative, for we must observe and understand the changes that occur in them before we can evaluate the changes in our bird populations.

As a group we are in an excellent position to make many worthwhile contributions to the present knowledge of Maryland's birdlife because of the diverse interests of our members. Many of the members are interested in various groups of plants such as the ferns or the grasses. Others are more interested in reptiles and amphibians. Almost all of us have some interests aside from birds. Now is the time for each of us to put our special interests and talents to work.

Every member of the MOS, whether he or she is a novice or an expert, can help in this collection of information. Cataloging all of the various forms of plants and wildlife and then keeping records of our day-to-day bird population will not require a great deal of time or effort from any one individual. It can, and should be, a project shared in equally by all. Each of us, by taking a few short moments from each trip to record a pertinent observation or two, can make visits to Rock Run more profitable and rewarding to ourselves and at the same time contribute to the overall purpose and value of our Sanctuary.

Lilac Lane, Perry Hall

THE PRESIDENT'S PAGE

The Valley Beyond the Shining Mountains

In Baltimore last March some 600 members and guests of MOS enjoyed a screen lecture by Hal Harrison entitled "Beyond the Shining Mountains."

"The Shining Mountains" is a term applying in general to our Rocky Mountains and in particular to the Mission Range of the Rockies, which runs roughly from Glacier National Park to about Missoula, Montana.

(Continued on Page 125)

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Currier, Mr. & Mrs. E. A., 831 Milford Mill Rd. Pikesville, 8.	HU6-6790
Dandy, Mrs. Walter E., 700 W. Melrose Ave., Balto. 10.	TU9-8882
Dandy, Dr. Walter E., Jr., 6000 Hunt Club Lane, Balto. 10.	TU9-5931
Darrin, Marc de Lepine, 4401 Wickford Rd., Balto. 10.	BE5-7987
Dell, Miss Katherine E., 6014 Smith Ave., Balto. 9.	MO4-3836
Denmead, Talbott, 2830 St. Paul St., Balto. 18.	BE5-1222
Dillehunt, H. B., Jr., 214 W. Read St., Balto. 1.	MU5-2299
Debbs, Dr. Edward C., 716 Hunting Place, Balto. 29.	WI5-4726
Dobbs, Miss Sally Mary, 716 Hunting Place, Balto. 29.	WI5-4726
Dowell, Dr. Anita A., Cambridge Arms Apts., Balto. 18.	BE5-4500
Drazin, Michael P., 6110 Fairdel Ave., Apt. 1-D, Balto. 6.	HA6-5612
Dwyer, Bruce, 1024 E. 36th St., Balto. 18.	BE5-9432
Elgert, Gerald G., 2816 Munster Rd., Balto. 34.	NO8-5278
Enser, Mrs. Bennett S., 6609 York Rd., Balto. 12.	DR7-5555
Ensor, Mrs. S. Laurence, 831 E. Lake Ave., Balto. 12.	ID5-7125
Ewing, Miss Jane, 418 Choice St., Bel Air, Md.	

Fenwick, Mrs. G. Bernard, Sr., Belmont Farm, Glyndon, Md.	TE3-2522
Fessenden, Mrs. George R., 1703 Northern Pkwy., Balto. 12.	ID5-6081
Fessenden, Miss Helen, Talcott, Oberlin, Ohio.	
Fisher, Dr. Elizabeth G., 4204 Somerset Pl. Balto. 10.	HO7-0676
Fitzpatrick, Miss Thekla M., 1125 St. Paul St., Balto. 2.	
Flowers, Miss Mary Ross, 930 Southerly Rd., Towson, 4.	VA3-4087
Francis, Mrs. Carl G., 8739 Satyr Hill Rd., Balto. 14.	NO5-3943
Frank, Miss Margaret D., Box 321 Liberty Rd., Randallstown, Md.	WA2-4035
Freeland, Mrs. E. Stabler, 108 Smithwood Ave., Catonsville, 28.	RI7-6647
Geddes, Mrs. Raymond, Jr., 503 Overbrook Rd., Balto. 12.	DR7-6583
Gerlach, Dr. Jane K., 235 Gaywood Rd., Balto. 12.	DR7-8364
Gerringer, Mrs. W. F., Greenspring Ave., Lutherville, Md.	VA5-2175
Gillespie, Mrs. Richard E., 1606 Burnwood Rd., Balto. 12.	ID3-2473
Goldberg, Mrs. Alma R., 621 St. Johns Rd., Balto. 10.	TU9-5536
Goldman, Mrs. Mary W., 2511 P St., N. W., Washington, D.C.	HU3-8918
Gorsuch, Mrs. H. K., 332 Broadmoor Rd., Balto. 12.	ID5-0074
Grasty, Mr. & Mrs. Cecil C., 3503 Newland Rd., Balto. 18.	BE5-1408
Grayson, Miss Elizabeth S., 4411 Greenway, Balto. 18.	HO7-1790
Glanville, Walter L., 818 Cedarcroft Rd., Balto. 12.	ID5-9216
Gustafson, Miss Dorothy K., 1125 St. Paul St., Balto. 2.	SA7-4927
Hackman, Mr. & Mrs. H. G., Lilac Lane, Perry Hall, Md.	ED5-4437
Hackman, Douglas, Lilac Lane, Perry Hall, Md.	ED5-4437
*Haile, Miss Margaret, Reckord Bldg., Towson 4, Md.	VA3-5441
*Haile, Mrs. Elmer R., Reckord Bldg., Towson 4, Md.	VA3-5441
Hakes, Mrs. Jesse F., Glenwood (Howard Co.) Md.	Glenwd317-J
Hampe, Irving E., 5559 Ashbourne Rd., Balto. 27.	CI2-5319
Hardy, Mrs. Jerry D., Sr., 22 Wade Ave., Catonsville 28, Md.	RI7-7724
Harris, Mrs. Lewis E., 4530 Mountview Rd., Balto. 29.	WI5-8193
Harrison, Mrs. Stephen M., 936 Dulaney Valley Rd., Apt. 4, Towson 4, Md.	VA5-4810
Heindl, Miss Marie E., 39 S. Potomac St., Balto. 24.	EA7-5725
Henderson, Mrs. W. L., Gibson Island, Md.	Gib. Is. 145
Holben, Mrs. Kenneth P., 4715 Roland Ave., Balto. 10.	HO7-9545
Howard, Miss Bertha H., 251 Rodgers Forge Rd., Balto. 12.	DR7-7407
Howard, Prof. & Mrs. David G., 137 Monticello Ave., Annapolis, Md.	CO3-3213
Jones, Rodney B., 207 Oak Ave., Pikesville 8, Md.	HU6-3442
Jones, Percy W., 5605 Fernpark Ave., Balto. 7.	MO4-2261
Kaestner, Benjamin, 405 Hollen Rd., Balto. 12.	ID5-7682
Kaestner, Mrs. Robert E., 6005 Lakehurst Dr., Balto. 10.	DR7-8990
Kay, Mrs. Nicholas, 611 Sussex Rd., Balto. 4.	VA5-1533
Keeley, Miss Katherine, 503 Greenlawn Dr., Apt. 103 Chillum, Md.	HE1-0543
Kemper, Mrs. William A., 616 College Ave., Lutherville, Md.	
Ketcham, Jackson P., 117 Hawthorne Rd., Balto. 10.	CH3-4620
Kolb, C. Haven, Jr., 5915 Meadow Rd., Balto. 6.	NO5-1326
Krimm, Dr. Hans, 1625 Elm St., Utica 3, N. Y.	
Lang, Mrs. Francis C., 109 Deepdene Rd., Balto. 10.	TU9-7541
Lavarello, Philip, 307 Dixie Dr., Towson 4, Md.	VA5-0750
Lescure, Miss Ono, 7815 Overbrook Rd., Ruxton 4, Md.	VA3-5962
Lipscomb, Miss Nancy E., 1732 Reisterstown Rd., Balto. 8.	HU6-5325
Lipscomb, Miss Suzanne C., Reisterstown Road, Balto. 8, Md.	HU6-5325
Low, Miss Margaret L., R. D. #2, Gaithersburg, Md.	SP4-3065

Low, Mr. & Mrs. Seth, R. D. # 2, Gaithersburg, Md.	SP4-3065
Low, Theodore J., 22 Dixie Dr., Towson 4, Md.	VA3-2244
Lubbert, Mr. & Mrs. Carl B., 613 Anneslie Rd., Balto. 12.	DR7-6346
McComas, Donald R., 2624 N. Charles St., Balto. 18.	
McCormick, Eddie M., 116 W. University Fky., Balto. 10.	BE5-5623
Mainster, Raymond, 3716 Croydon Rd., Balto. 7.	OL3-4441
May, Dr. Robert E., 1633 Woodbourne Ave., Balto. 12.	
McCann, Miss Nancy, R.F.D., Darlington, Md.	
Metcalf, Mrs. E. As., 906 Wellington Rd., Balto. 12.	DR7-6477
Michel, Mrs. Harry O., 6 Lombardy Pl., Towson 4.	VA3-1552
Michel, Susanne, 6 Lombardy Pl., Towson 4, Md.	VA3-1552
Millard, Richard C., 803 Shaw Court, Towson 4, Md.	
Mogavero, Bonnie Dee, 6525 Loch Hill Crt., Balto. 12.	VA3-4273
Moore, Mrs. Charles, 4107 W. Woodbine St., Chevy Chase 15.	OL2-3148
Moore, Mrs. Harvey, Cambridge Arms, 3339 N. Charles St., Balto. 18.	
Muller, Miss Emily M., 416 Hollen Rd., York Rd. Entrance, Balto. 12.	
Mullin, Mrs. Bernard, 2917 Cresmont Ave., Balto. 11.	
Murrison, Mr. & Mrs. John A., Jr., 307 W. Seminary Ave., Lutherville, Md.	VA3-0561
Musselman, Miss Eleanor S., 9 W. Melrose Ave., Balto. 10.	HO7-4996
Myers, Mrs. Philip, 4208 N. Charles St., Balto. 18.	TU9-5685
Myers, Mrs. Philip, Jr., 504 Hampton La., Towson 4, Md.	VA3-2678
Myers, Pete, 504 Hampton La., Towson 4, Md.	VA3-2678
Myers, Mrs. T. W., 4 E. Beech Drive, Balto. 20.	MO6-7107
Naumann, Miss Grace M., 100 Dumbarton Rd., Balto. 12.	DR7-9032
Neroda, Miss Joanna, 613 Ploy St., Balto. 1.	
Newcomer, George S., 15 W. Madison St., Balto. 1.	LE9-2685
Nicol, John W., 227 W. Lafayette Ave., Balto. 17.	LA3-2647
*Odell, Dr. Lois D., 76 Cedar Ave., Towson 4, Md.	
O'Donovan, Mrs. J. C., Riva, Anne Arundel Co., Md.	
Ohrenschall, Fred H., 104 Tuscany Rd., Balto. 10.	
Pelton, Miss Marion H., 211 Donnybrook La., Apt. B., Towson 4, Md.	VA3-0513
Penniman, Nicholas G., III, 806 Mercantile Trust Bldg., Balto. 2.	LE9-5328
Perlman, Daniel & Ricky, 6108 Ivydene Terr., Balto. 9.	MO4-6908
Petty, Dr. & Mrs. Charles S., 2317 Poplar Dr., Balto. 7.	WL4-2564
Platt, Clarence S., 718 Highwood Dr., Balto. 12.	ID3-8742
Pierce, David A., 879 N. Kentucky St., Arlington 5, Va.	JA2-7245
Reeder, Mrs. Oliver H., 1300 Dulaney Vally Rd., Towson 4, Md.	
Reese, Andrews, Owings Mills, Md.	TE3-2348
Reese, Mrs. Waiva D., Bonita Ave., Owings Mills, Md.	TE3-2348
Reifschneider, Mrs. Herbert E., 3409 Greenway, Balto. 18.	
Rice, Miss Dorothy T., 2307 Eutaw Pl., Balto. 17.	LA3-4738
Rhode, W. Allen, 15 Overbrook Rd., Catonsville 28, Md.	RI7-9330
Rizner, Mr. & Mrs. H. R., 6731 Queens Ferry Rd., Balto. 12.	VA5-7348
Robbins, Chandler S., Patuxent Research Center, Laurel Md.	GR4-6763
Robbins, Mrs. Eleanor C., 1409 Brooklyn Bridge Rd., Laurel, Md.	PA5-1176
Robertson, Mrs. W. G., Woodbrook La., Balto. 12.	DR7-9529
Roeder, Mrs. George H., 6800 N. Charles St., Ruxton 4, Md.	
Rouse, Mrs. James W., 1 Overbrook La., Balto. 10.	DR7-7651
Rowe, Mrs. Joshua, 601 Stevenson La., Towson 4, Md.	VA5-3076

- Rubach, Mrs. Carl, 17 E. Ridgely Rd., Lutherville, Md. GL2-2759
- Rucey, William W., 16 Westwood Dr., Westmoreland Hills (Md.)
Washington 16, D. C.
- Russell, Mrs. R. P., 902 Greenleigh Rd., Balto. 12.
- Ryan, Mr. & Mrs. Cecil R., 2308 Birch Rd., Balto. 12. WI4-4529
- Rykiel, Edward J., Jr., 2613 W. Coldspring La., Balto. 15. LI2-1757
- Saffran, Fred, 4509 Bayonne Ave., Balto. 6. HA6-4161
- Schaffer, Miss Betsy D., 8 Beechdale Rd., Balto. 10. TU9-0065
- Schaffer, Miss Martha S., 8 Beechdale Rd., Balto. 10. TU9-0065
- Schaffer, Dr. & Mrs. Norwood K., 8 Beechdale Rd., Balto. 10. TU9-0065
- Schneider, William N., 3300 Glenmore Ave., Balto. 14. CL4-2095
- Scott, Miss Gurnee, 1635 Waverly Way, Balto. 12.
- Shaw, Mrs. S. Edward, 78 Hanover Rd., Reisterstown, Md. TE3-4033
- Shock, Mrs. N. W., 6505 Maplewood Rd., Balto. 12. DR7-5223
- Shoff, Miss Alice M., 695 Gladstone Ave., Balto. 10.
- Shores, Mrs. William T., 55 Belmore Rd., Lutherville, Md. VA5-5670
- Simon, Mr. & Mrs. Andrew, Blue Mount Rd., Monkton, Md. FL7-3474
- Smith, Mrs. Katherine A., 3476 Dolfield Ave., Balto. 15. LI2-6320
- Smith, Mrs. Lloyd L., 921 Regester Ave., Balto. 12. DR7-7985
- Smyth, James D., Jr., 1439 Providence Rd., Towson 4, Md. VA5-2373
- Snyder, W. Edwin, 7 Holmehurst Ave., Catonsville 28, Md.
- Spring, Dr. & Mrs. David, Dept. of History, The Johns Hopkins University, Balto. 18. CH3-0456
- Standiford, Mrs. C. A., Montrose & Pratt Aves., Balto. 12. DR7-8356
- Stauffer, Mrs. Sue C., Mercersburg, Penna. Route 2.
- Steinberg, Miss Barbara, 3111 Hatton Rd., Balto. 8. HU6-6820
- Stollenwerck, Mrs. Frank, 621 E. 34th St., Balto. 18. CH3-6095
- Strauss, Stephen Alan, 6705 Whippewa Dr., Balto. 9. HU6-2450
- Tappan, Mrs. Gail, Gibson Island, Md.
- Taylor, Miss Ann, 1540 Northbourne Rd., Balto. 12. ID3-1803
- Taylor, Larry R., 1540 Northbourne Rd., Balto. 12. ID3-1803
- Taylor, Dr. & Mrs. W. Rowland, 1540 Northbourne Rd., Balto. 12. ID3-1803
- * Teele, Ray P., 3713 Jennifer St., N. W., Washington 15, D. C. WO6-1990
- Theobald, Mrs. O. J., 13 Maryland Ave., Towson 4, Md. VA3-6867
- Thomas, Mr. & Mrs. Malcolm F., 1352 Pentwood Rd., Balto. 12. ID5-6488
- Thomas, Malcolm, Jr., 1352 Pentwood Rd., Balto. 12. ID5-6488
- Thomas, Mrs. Robert C., 3041 Third Ave., Balto. 14. NO8-7867
- Thompson, Mrs. Robert A., 605 Worcester Rd., Towson 4, Md.
- Thompson, Franklin, 2007 "O" St., N. W., Washington 6, D. C.
- Thornley, Miss Elizabeth J., 3014 N. Calvert St., Balto. 18. TU9-7556
- Trautman, Robert J., 25 Murdock Rd., Balto. 12. DR7-7424
- Travis, Mrs. J. R., 4258 Fairway, Los Alamos, N. M.
- Treppe, Vincent J., 2014 Northbourne Rd., Balto. 14.
- Triplett, Dr. William H., 1038 Lakemont Rd., Balto. 28. RI4-5927
- Twilley, Mrs. G. Ennis, 1815 Edmondson Ave., Catonsville 28, Md.
- Vitak, Miss Mary Jo, 148 Regester Ave., Balto. 12. DR7-7468
- Vollmer, Mrs. Leo J., 6405 Murray Hill Rd., Balto. 12. VA3-4556
- Wagley, Mrs. Philip F., 21 Meadow Rd., Balto. 12. DR7-7160
- walker, Mrs. Albert H., 610 Overbrook Rd., Balto. 12. DR7-5936
- Wedge, Miss Etta S., 1804 Kenway Rd., Balto. 9. MO4-3581
- Wentworth, Mrs. Edna Clark, 1801 South Rd., Balto. 9.
- White, Mrs. John C., Barnstable Hill, Chester, Md.

Whitehouse, Dr. Samuel, 2933 N. Charles St., Balto. 18.	TU9-1821
Wilcox, Mrs. Eleanor R., 4006 Liberty Hgts. Ave., Balto. 7.	LI2-2188
Williams, Miss Grace M., 1521 Pentridge Rd., Balto. 12.	HO7-5567
Williams, Mrs. L. Elliott, Jr., 824 Beaumont Ave., Balto. 12.	
Wimp, Mrs. Katherine K., 4129 Roland Ave., Balto. 11.	CH3-3672
Winsor, Mrs. Charles P., 107 Taplow Rd., Balto. 12.	ID3-2288
Wormelle, Mrs. Curtis, Rte 5, Windsor Mill Rd. Ext., Balto. 7.	OL3-8399
Worthley, Mr. & Mrs. Elmer G., Owings Mills, Md.	
Zeffert, Steven D., 3613 Glen Ave., Balto. 15.	LI2-9042
Zitnick, John H., 1919 Heathfield Rd., Balto. 14.	ID3-5690
Zitnick, Miss Josephine, 1919 Heathfield Rd., Balto. 14.	ID3-5690

CAROLINE COUNTY BIRD CLUB

Bilbrough, Elsie, Greensboro, Md.	HU2-3133
Butenschoen, Margaret, Rt. # 2, Denton, Md.	Denton 682J
Fletcher, Robert, Rt. # 1, Denton, Md.	EM4-4492
Fletcher, Mr. & Mrs. A. J., Rt. # 1, Denton, Md.	Denton 643W2
Hewitt, Mr. & Mrs. Marvin, Greensboro, Md.	HU2-5781
Knotts, Mrs. Louis J., Rt. # 2, Denton, Md.	Denton 979W
Moore, Terry, Queen Anne, Md.	
Pepper, Mr. & Mrs. E. Aldridge, 206 South Second St. Denton, Md.	Denton 533J
Robbins, Mark, Denton, Md.	
Scudder, Mrs. Carol, Federalsburg, Md.	Denton 533J
Scudder, Billy, Federalsburg, Md.	

FREDERICK COUNTY CHAPTER

Anders, Mrs. Louise G., 123 W. Church St., Frederick, Md.	MO2-5705
Collmus, Mrs. Dwight, 312 Upper College Ter., Frederick, Md.	MO3-9436
Collmus, Miss Kathy, 312 Upper College Ter., Frederick, Md.	MO3-9436
Edwards, Mr. & Mrs. Sterling, Myersville, Md.	MYS.2861
Haines, Dr. & Mrs. Bertram, 509-A Wilson Pl., Frederick, Md.	MO2-3149
Helfenstein, Miss Mary G., 70 Watkins Acres, Frederick, Md.	MO3-9254
Hoyler, Mrs. Mabel, 16 Clark Place, Frederick, Md.	MO3-5785
Mayhew, Charles Rt. #7, Frederick, Md.	MO2-1994
McClelland, Mrs. Grayson, 118 W. 3d St., Frederick, Md.	MO2-3761
Motherway, Mrs. Mary, 111 E. Church St., Frederick, Md.	
Mullican, Charles, 503 Lee Pl., Frederick, Md.	MO2-1338
Nicodemus, Mr. & Mrs. Frank, Walkersville, Md.	VI5-2801
Partridge, Mr. & Mrs. Melvin H., RFD #5, Frederick, Md.	MO2-2267
Quinn, Miss Sarah, 13 E. 2d St., Frederick, Md.	MO3-3227
Richards, Dr. & Mrs. John, RFD #6, Emmitsburg, Md.	HL7-4006
Schaeffe, Mrs. Sophia, 113 W. 3d St., Frederick, Md.	MO2-3382
Shirey, William N., 121 Fairview Ave., Frederick, Md.	MO3-9153
Thornburg, Mrs. H. D., 28305 Kemptown Rd., Damascus, Md.	
Weirether, Mr. & Mrs. F. G., 214 E. Church St., Frederick, Md.	MO3-4680
Wilson, Miss Dorothy, 113 W. 3d St., Frederick, Md.	MO2-3382
White, Mrs. Hazel, Francis Scott Hotel, Frederick, Md.	MO2-2111

HARFORD COUNTY BIRD CLUB

Bilsborough, Miss Barbara, RD #2, P.O.B. 108A, Aberdeen, Md.	RE4-6141
Black, Mrs. Ethel, P.O.B. 252A, RD #1, Joppa, Md.	
Buckner, Mr. & Mrs. C. L., 235 Wakeley Ter., Bel Air, Md.	TE8-3866
Cox, Miss Mary Jane, 6601 Hillandale Rd., Chevy Chase 15, Md., Apt. 2	
Deering, Mr. & Mrs. Lawrence, Ridgewood Rd., Bel Air, Md.	TE8-4315
Dowling, Mrs. S. R., MacPhail Rd., Bel Air, Md.	TE8-3184
Drumm, Geoffrey, P.O.B. 115, Edgewood, Md.	ED1-13J3
Drumm, George, P.O.B. 115, Edgewood, Md.	ED1-13J3
Everett, Miss Estelle, Emmorton Rd., Bel Air, Md.	TE8-5835
Ewing, Mrs. Sharpless, 418 Choice St., Bel Air, Md.	
Fielder, James, Fair View Farm, RD #2, Bel Air, Md.	
Finney, Mrs. William, RD #2, Aberdeen, Md.	RE4-3031
Galbreth, John Charles, Street, Maryland	
Gatchell, Mr. & Mrs. Russell L., P.O.B. 313, RD #3, Joppa, Md.	TR7-0509
Gau, Mrs. Henry L., RD #1, P.O.B. 169, Joppa Md.	TR7-1710
Grant, Mrs. Edward, Harlan St., Bel Air, Md.	TE8-5788
Gregory, Mrs. Evelyn, RD #2, Havre de Grace, Md.	RE4-6609
Grove, Mrs. George K., Maple View Dr., Bel Air, Md.	TE8-4740
Hicks, Mr. & Mrs. Robert L., Toll Gate Rd., Bel Air, Md.	TE8-6046
Hill, Charles, 304 E. Belcrest Rd., Bel Air, Md.	TE8-7507
Hill, Mrs. David L., 304 E. Belcrest Rd., Bel Air, Md.	TE8-7507
Holfeldt, Mrs. Jean, RD #2, Bel Air, Md.	RE4-4172
Hopkins, Mr. & Mrs. Harry, Darlington, Md.	RE4-6233
Karpov, Mr. & Mrs. B. G., Paradise Rd., Aberdeen, Md.	CR2-0854
Knight, Edward, Darlington, Md.	GL7-4213
Knight, Miss M. Joyce, RD #2, P.O.B. 212, Havre de Grace, Md.	RE4-4725
LaFevre, Miss Elizabeth, RD #1, P.O.B. 169, Joppa, Md.	TR7-1710
Little, Mr. & Mrs. Glenn, 38 Broadway, Bel Air, Md.	TE8-4354
Millway, Miss Helen, RD #3, P.O.B. 130, Bel Air, Md.	TE8-5312
Noyes, Mrs. Victor P., Vale Rd., Bel Air, Md.	TE8-5255
Pannill, Mr. & Mrs. Joseph, P.O.B. 27, Aberdeen, Md.	RE4-3845
Peary, Mrs. Nina, Churchville, Md.	
Peverly, Sidney, Choice St., Bel Air, Md.	TE8-7060
Price, James, MacPhail Rd., Bel Air, Md.	TE8-3184
Raspe, Miss Jeanette, P.O.B. 252A, RD #1, Joppa, Md.	
Simonds, Miss Jean, RD #1, Joppa, Md.	TR7-0878
Smith, Mrs. Jennie, 33 W. Courtland, Bel Air, Md.	
Smith, Mr. & Mrs. Turner, Sherwood Lane, RD #1, Aberdeen, Md.	AB 2632
Tucker, Mr. & Mrs. Barclay E., Grafton Shop Rd., Bel Air, Md.	TE8-6269
Tucker, Barclay E., Jr., Grafton Shop Rd., Bel Air, Md.	TE8-6269
Tum Suden, Dr. Caroline, Sommerville Rd., Bel Air, Md.	TE8-3160
Wadsworth, Mr. & Mrs. Donald, RD #3, Atkinson Rd., Joppa, Md.	TR7-0596
Winn, Mr. & Mrs. Charles, 121 Stoneleigh Rd., Bel Air, Md.	TE8-6892
Wright, E. E. Miss, RD #3, P.O.B. 69	
Wright, Mrs. Grace, P.O.B. 9, Aberdeen, Md.	

KENT COUNTY CHAPTER

Brown, Barbara, Chesmar, Chestertown, Md.	
Carswell, Mr. & Mrs. Thomas S., R. D., Chestertown, Md.	CH* 487-R
Gardner, Mr. & Mrs. G. L., Chesmar, Chestertown, Md.	" 1474

Gibson, Daniel D., Chestertown, Md.	CH* 278
Gibson, Mr. & Mrs. Daniel Z., Front St., Chestertown, Md.	" 278
Ingersoll, Daniel, Jr., Quaker Neck, R. D., Chestertown, Md.	" 41
Kane, Mr. & Mrs. Brian, Sr., Front St., Chestertown, Md.	" 135-W
Kingsley, Mr. & Mrs. Mabon, Quaker Neck, R. D., Chestertown	" 1593-R-2
Mendinhall, Mr. & Mrs. Edward, "Damsite", Chestertown, Md.	" 533-R-1
McAlpin, Mr. William, R. D., Chestertown, Md.	" 345
McSorley, Mr. & Mrs. Samuel, R. D. # 2, Chestertown, Md.	
McSorley, Nancy, R. D. #2, Chestertown, Md.	
McSorley, Ruth Anne, R. D. #2, Chestertown, Md.	
McSorley, Ted, R. D. #2, Chestertown, Md.	
Nelson, Mr. & Mrs. John C II, R. D. #3, Chestertown	CH 1993
Nelson, Rev. & Mrs. John M., 106 N. Queen St., Chestertown	" 1195-W
Smith, James Hall, Quaker Neck, R. D., Chestertown, Md.	" 832-W-1
Smith, Mrs. Peggy Kellogg, Quaker Neck, R. D., Chestertown	" 311-J
Steiner, Mrs. Edgar, Ford's Landing, Millington, Md.	WA8-3362
Truslow, Mrs. Claude, R. D., Chestertown, Md.	CH 275-K
Webster, Mrs. Ada, Remington Farms, Chestertown, Md.	
Webster, Mr. & Mrs. Clark, Remington Farms, Chestertown, Md.	CH 1444-W
Westcott, Mrs. Nell C., Philosopher's Terrace, Chestertown	
Williamson, Mr. & Mrs. David, R. D., Chestertown, Md.	CH 431

(* Note: CH phone exchange is Chestertown)

PATUXENT BIRD CLUB

Acero, Douglas, 1106 Marton St., Laurel, Md.	
Addy, Mrs. C. E., 2217 Sandy Spring Rd., Laurel, Md.	PA5-0288
Addy, Miss Christine, 2217 Sandy Spring Rd., Laurel, Md.	PA5-0288
Bridge, Mr. David, 8A Ridge Rd., Greenbelt, Md.	GR4-6193
Bridge, Mrs. Richard B., 8A Ridge Rd., Greenbelt, Md.	GR4-6193
Campagna, Mrs. Louis J., 1100 Marton St., Laurel, Md.	PA5-6035
Campagna, Louis J., Jr., 1100 Marton St., Laurel, Md.	PA5-6035
Campagna, Mary Ann, 1100 Marton St., Laurel, Md.	PA5-6035
Collins, Mr. Morris R., P.O. Box 307, Savage, Md.	PA5-4178
Dupree, Mrs. Eugene J. 906 Philip Powers Drive, Laurel, Md.	PA5-5355
Dupree, Miss Pat, 906 Philip Powers Drive, Laurel, Md.	PA5-5355
Fish, Mrs. James M., 205 4th St., Laurel, Md.	PA5-4740
Getchell, Dr. and Mrs. B. C., 314 Bond Mill Rd., Laurel, Md.	PA5-5369
Johnson, Byrl, 2112 Ingraham St., Hyattsville, Md.	
Kleen, Mr. Melvin H., 339 Talbott Ave., Laurel, Md.	PA5-6867
Kleen, Mr. Vernon, 339 Talbott Ave., Laurel, Md.	PA5-6867
Libby, Kenneth R., Jr., 4401 Tonquil Pl., Beltsville, Md.	GR4-4834
Lochstampfor, Miss Sarita, 1501 Brooklyn Bridge Rd., Laurel, Md.	PA5-6719
Meanley, Mr. Brooks, Rt. 2, Box 256, Laurel, Md.	PA5-4443
Newman, Bruce, 4219 28th St., Mt. Rainier, Md.	AP7-3605
Rauth, Mrs. Harry B., Highland, Md.	PA5-0165
Riedel, Margaret, 9811 Wildwood Rd., Bethesda, Md.	WH2-6056
Riedel, Mrs. William R., 9811 Wildwood Rd., Bethesda, Md.	WH2-6056
*Robbins, Mr. and Mrs. Chandler S., 1409 Brooklyn Bridge Rd., Laurel, Md.	PA5-1176
Robbins, George C., 1409 Brooklyn Bridge Rd., Laurel, Md.	PA5-1176
Robbins, Jane S., 1409 Brooklyn Bridge Rd., Laurel, Md.	PA5-1176
Robbins, Stuart B., 1409 Brooklyn Bridge Rd., Laurel, Md.	PA5-1176

Sparkes, Mrs. Adele G., 919 7th St., Laurel, Md.	PA5-0899
Stiles, Ted, 2000 Brooklyn Bridge Rd., Laurel, Md.	PA5-4386
Vergine, Mrs. George H., 807 8th St., Laurel, Md.	PA5-5447
Wilson, Mr. Charles M., 801 Bond Mill Rd., Laurel, Md.	PA5-1414
Wilson, Charles M., Jr., 801 Bond Mill Rd., Laurel, Md.	PA5-1414

SOLDIERS DELIGHT CHAPTER

Cantwell, Mrs. Margaret, Montrose Ave., Garrison, Md.	HU6-5914
Charlton, Brian, Bond Ave., Reisterstown, Md.	TE3-3848
Coe, Mrs. Ward, Sherwood Rd., Owings Mills, Md.	TE3-5435
Donoho, Mrs. Murray T., Park Heights Ave., Owings Mills, Md.	HU6-4226
Fastie, Mrs. William G., Moale's Lane, Owings Mills, Md.	HU6-7430
Kaufman, Mrs. David, Park Heights Ave., Owings Mills, Md.	HU6-8939
Kelmenson, Mrs. Harry, Caveswood Lane, Owings Mills, Md.	HU6-1218
Koontz, Mrs. Amos H., Garrison Forest Rd., Garrison, Md.	HU6-5533
Larrabee, Mrs. Martin, 1907 South Rd., Balto. 9, Md.	MO4-9011
Martin, Mr. & Mrs. John, 132 S. Ritters Lane, Owings Mills, Md.	TE3-1751
Miley, James G., 1141 N. George St., York, Penna.	
Poe, Mrs. Bertha, Academy Ave., Owings Mills, Md.	TE3-2585
Poe, Miss Carol, Academy Ave., Owings Mills, Md.	TE3-2585
Reese, Mrs. Waiva D., Bonita Ave., Owings Mills, Md.	TE3-2348
Roelecke, Mr. & Mrs. Frederick, Dogwood Rd., Woodlawn, Md.	WI4-0782
Smoot, Miss Jan, 1 Cockeysmill Rd., Reisterstown, Md.	TE3-2040
Sullivan, Chuck, Garrison Forest Rd., Owings Mills, Md.	TE3-1448
Tongue, Mrs. Benjamin, Owings Mills, Md.	HU6-6744
Wolf, Mrs. Harry B., Jr., Garrison Forest Rd., Owings Mills, Md.	HU6-5356
*Worthley, Dr. & Mrs. Elmer, Bonita Ave., Owings Mills, Md.	TE3-2582

TAKOMA PARK NATURE SOCIETY

Clark, Miss Gladys, 209 Lincoln Ave., Takoma Park 12, Md.	
Hovey, Mrs. Elsie, 26 Lee Avenue, Takoma Park 12, Md.	
Lawrence, Mr. & Mrs. Ralph E., 2931 Langley Court N.W., Wash. 16, D.C.	
Linscott, Miss Eva, 806 Kennebec Avenue, Takoma Park, 12, Md.	
Smith, Miss Hilda, 9912 Cherry Tree Lane, Silver Spring, Md.	
Thomsen, Mr. & Mrs. Charles N., 419 Elm Ave., Takoma Park 12, Md.	
Tyrrell, Mr. & Mrs. Bryant, 246 Park Ave., Takoma Park 12, Md.	

TALBOT COUNTY BIRD CLUB

Adams, Miss Florence, St. Michaels, Md.	RI5-7541
*Adkins, Miss Edith, 13 N. Aurora St., Easton, Md.	TA2-1545
Ambler, Dr. & Mrs. J. T., Villa Road, Easton, Md.	TA2-1195
Armistead, Henry T., 7720 McCallum St., Phila. 18, Pa.	
Barner, Mrs. George, Miles River Pony Farm, RFD 1, Easton.	TA2-2580
Bauer, Mrs. Katherine, Royal Oak, Md.	RI5-2731
Blunt, Miss Joann, 221 N. Commerce, Centerville, Md.	
Blumoehr, Mrs. Mary, Box 333, St. Michaels, Md.	RI5-2306
Borden-Smith, Miss Carolyn, Hambleton Apts., Easton, Md.	TA2-1485
Borden-Smith, Mr. Harold, Hambleton Apts., Easton, Md.	TA2-1485
Bowman, Mrs. Charles, Bailey's Neck, Easton, Md.	TA2-1981
Bryan, Bill, St. Michaels, Md.	
Buchanan, Mr. Charles, 104 W. Melrose Ave., Balto. 10.	ID5-8305
Chaplin, Mrs. William, Snug Harbor, Easton, Md.	TA2-3420

Christopher, Mrs. C., 2 Travers, Cambridge, Md.	
Clark, Chris, St. Michaels, Md.	
Clark, Miss Elizabeth Bootes, St. Michaels, Md.	745-2742
Covell, Mrs. E. Hall, 117 Dover St., Easton, Md.	TA2-1759
Curtis, Mr. & Mrs. Frederick A., Royal Oak, Md.	RI5-4683
deButts, Mr. Dulaney F., Box 75, Easton, Md.	822-2766
Delaplaine, Miss Meribah, 434 N. Highland Ave, Merion Station, Pa.	
Delphy, Mrs. C., Royal Oak, Md.	RI5-2410
Dorsey, Mrs. John, Route 4, Easton, Md.	TA2-1669
Driggs, Mrs. Laurence, Box 456, Easton, Md.	TA2-0162
Farmer, Miss Geraldine, St. Michaels, Md.	
Ferry, Mr. & Mrs. Ralph, P.O. Box 253, St. Michaels, Md.	RI5-4571
Fink, Carl, Royal Oak, Md.	
Fountain, Mr. & Mrs. A. Dixon, Trippe's Creek, Easton, Md.	TA2-3468
Galloway, Mrs. W., Wood's Hole, Easton, Md.	TA2-0997
Garrett, Jim, Royal Oak, Md.	
Giles, Mr. & Mrs. H. L., The Cottage, Bozman, Md.	RI5-2327
Gould, Mrs. William, Hambleton Apts., Easton, Md.	TA2-1785
Grabe, Mrs. C. G., Royal Oak, Md.	RI5-2119
Hanks, Mrs. Margaret, Oxford, Md.	CA6-5418
Hazen, Mrs. Gardner, Villa Rd., Easton, Md.	TA2-1356
Henderson, Mr. & Mrs. Edmund, Rigby's Marsh, Trappe, Md.	GR6-3247
Henning, Mr. Winfield, D.A. Newton Son & Co., Bridgeville, Del	ED7-7280
Henry, Mr. & Mrs. T. Hughlett, Jr., Bailey's Neck, Easton	TA2-1797
Highly, Mrs. Eunice, Oxford, Md.	CA6-5418
Hoon, Mrs. Merle, Royal Oak, Md.	RI5-2271
Hulbert, Mr. & Mrs. E. O., Double Mills Farm, Rt. 4, Easton	TA2-0996
Hyde, Miss Ruth, Route 3, Easton, Md.	822-1639
Johnson, Mr. C. Lowndes, The Harbor, Easton, Md.	TA2-1378
Kleen, Mr. Richard, St. Michaels, Md.	RI5-4821
MacSherry, Mrs. R., Tidewater Inn, Easton, Md.	TA2-1300
McCord, Mrs. Harriet V., World Farm, Oxford, Md.	CA6-5217
Miles, Mrs. Clarence, Blakeford, Greenstown, Md.	
Nevius, Mr. & Mrs. Ronald, 2 Brooklets Ave., Easton, Md.	TA2-0769
Noble, Dr. & Mrs. William, 219 S. Hanson St., Easton, Md.	TA2-1065
Oakley, Mr. & Mrs. W. H. Oakley, Bailey's Neck, Easton, Md.	TA2-0460
Offutt, Mrs. Harry, Peach Blossom, Easton, Md.	TA2-1238
Porter, Mrs. Andrew, Anderby, Royal Oak, Md.	RI5-7281
Ranck, Rev. Clayton, 407 S. Washington, Easton, Md.	TA2-1077
Reese, Mr. Jan, Box 213, Tilghman, Md.	TU6-2352
Ross, Mr. Donald, Bailey's Neck, Easton, Md.	TA2-2422
Schaefer, Mr. & Mrs. Floyd, The Mooring, Bailey's Neck, Easton, Md.	TA2-0906
Schmick, Wesley, St. Michaels, Md.	
Schneider, Dr. John, Memorial Hospital, Easton, Md.	TA2-1000
Sharp, Mr. Robert, II, Doncaster, Easton, Md.	TA2-2324
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Smith, Miss Margaret, Box 182, Route 4, Easton, Md.	TA2-0557
Smith, Mr. & Mrs. Robert, Porter's Pride, St. Michaels, Md.	RI5-5413
Tanger, Mr. G. Y., Rohrerstown, Lancaster Co., Pa.	
Tanger, G. Y., Jr., Rohrerstown, Lancaster Co., Pa.	

Tillinghast, Mrs. Gardner, Travelers' Rest, Easton, Md.	TA2-1156
Unger, Mr. Edwin, Federalsburg, Md.	
Wanuga, Mr. John, Box 612, Easton, Md.	
Willis, Mrs. J. McKenny, Jr., Sally's Delight, Easton, Md.	TA2-3273
Welch, Mr. & Mrs. Francis W., Jr., 16 N. Aurora St., Easton	TA2-1275
Yerby, Mrs. D., 20 S. Washington St., Easton, Md.	
Yost, Mr. & Mrs. John, Ferry Bridge, Easton, Md.	TA2-2843

UNAFFILIATED MEMBERS

Arnold, Elting, 4914 Dorset Ave., Chevy Chase 15, Md.	
Brackbill, Hervey, 2620 Poplar Drive, Baltimore 7, Md.	WI.4-3382
Cohen, Dr. & Mrs. Charles, Jr., Box 93, Dahlgren, Virginia	
Crowder, Orville W., Box 2247, Washington 13, D.C.	
Davenport, A. Bruce, Box 127, Rte. 3, Charlottesville, Va.	
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Hall, George A., Dept. of Chemistry, West Virginia Univ., Morgantown, W.Va.	
Hall, Mrs. Irving, Chester, Md.	
Iseminger, Mrs. H. M., 1839 Virginia Ave., Hagerstown, Md.	
Lessig, Mrs. Helen M., Rte. 1, Poolesville, Md.	
Lippincott, Miss Elizabeth R., Chruch St., R.D. 1, Moorestown, N.J.	
McCamey, Franklin, 91 Ormand St., Frostburg, Md.	
Mallonee, Mrs. L. L., Jr., Rte. 1, Fairplay, wash. Co., Md.	
Matteossian, Mrs. Florence T., 8715 Burdette Road, Bethesda 14, Md.	
Prest, Mrs. J. H., R.D. 1, Bear, Delaware	
Riley, Mrs. E. Gordon, Rte. 1, Box 368, Severna Park, Md.	
Rittenhouse, Wilbur, 3435 W. Van Buren St., Chicago 24, Ill.	
Struthers, Francis W., Rte. 1, Marlboro, New Hampshire	
Sutton, Miss Harriet, 4105 Wisconsin Ave., N.W., Washington 16, D.C.	
Swing, Mrs. Dolf, 15 W. 67th St., New York 24, N.Y.	
Weske, John Seddon, P.O. Box 116, Sandy Spring, Md.	
White, Mrs. John J., Saint Leonard, Md.	
Wierenga, Harold, 1216 Tyler Ave., Annapolis, Maryland	

ADDENDA

Bader, Alan, 2420 Hunt Dr., Balto. 9, Md.	HU6-2281
Beehler, Bruce, 5007 Blythewood Rd., Balto. 10, Md.	
Brown, Mrs. Joseph D., 904 Rappaix Court, Balto. 4, Md.	
Chandlee, Mrs. George M., Jr., 5407-G Roland Ave., Balto. 10, Md.	
Fraze, Mrs. Gieford, Rt. #3, Box 120-A, Gaithersburg, Md.	
Frech, William W., 609 Bosley Ave., Towson 4, Md.	828-5593
Harris, Mrs. Lewis E., 4530 Mountview Rd., Balto. 29, Md.	WI5-8193
Hartline, Mrs. Elizabeth K., Box 198, R.D.#1, Hydes, Md.	
Hoge, Jay, 2209 Crest Rd., Balto. 9, Md.	LI2-5717
Ives, Beezie, 630 Colorado Ave., Balto. 10, Md.	TU9-0268
Joos, Miss Heidi, 6827 Barnett Rd., Balto. 12, Md.	VA5-6253
Joos, Miss Mindy, 6827 Barnett Rd., Balto. 12, Md.	VA5-6253
Kessler, Mr. & Mrs. A.A., 1905 Tyler Rd., Dundalk, Md.	
Kessler, Kenneth, 1905 Tyler Rd., Dundalk 22, Md.	
Kiessling, Jay, 917 Coleridge Rd., Balto. 29, Md.	RI7-0858
Koubik, Frank Hugo, 5517 Calvert Rd., Balto. 7, Md.	WI4-2584

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 Watkins, Mr. Leonard R., 3700 N. Charles St., Balto. 18, Md.
 Watson, Miss Catherine, 1915 Heathfield Rd., Balto. 14 ID5-1023
 Williams, Mrs. Frederick R., 616 Colorado Ave., Balto. 10.
 Witten, Edward, 2419 Diana Rd., Balto. 9, Md. HU6-8396

* Life Members

THINGS TO DO IN JANUARY, FEBRUARY AND MARCH

Douglas Hackman has suggested that we set up a regular column for "Things To Do," directed primarily toward beginners. We would appreciate your comments on this idea. In the meantime, we are using a few lines under this heading to call your attention to some deadlines and some requests for assistance, and to mention recent bird observations.

HELEN B. MILLER AUDUBON NATURE CAMP SCHOLARSHIP applicants should apply in writing to President Seth H. Low by Feb. 1.

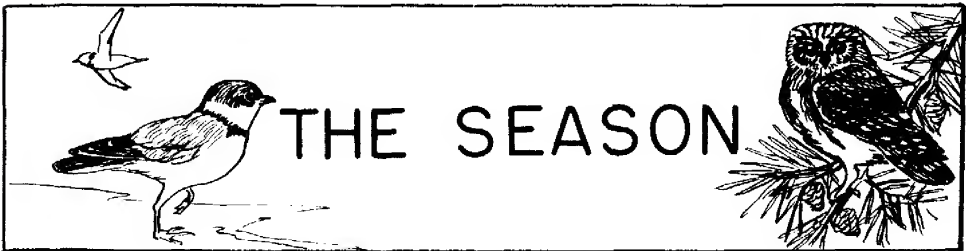
Mail 1961 COUNTY BIRD LISTS by Jan. 10 to John S. Weske, 304 Main Street, Etna, N.Y.

NEST RECORDS for 1961 should be sent immediately to David Bridge, 8A Ridge Rd., Greenbelt.

Contact Douglas Hackman if you wish to participate in the WINTER BIRD-POPULATION STUDY at Rock Run Sanctuary, Dec. 20--Feb. 10.

Do you have any information on PURPLE MARTINS? J.C. Finlay, 6719 102A Ave., Edmonton, Alberta is studying this species and requests arrival, departure and nesting dates for as many years as possible. He also wants information on population changes, survival of young and results of banding studies. Dr. A.J. Erskine, whom some of you met at the recent AOU meeting, is preparing a monograph on the BUFFLEHEAD and requests arrival and departure dates, peak dates of migration and peak numbers; when writing him at P.O. Box 180, Sackville, N.B., specify whether or not the birds were known to have actually arrived or departed on the dates given. Also report Buffleheads dyed with bright patches of red, yellow, or orange.

Rare birds to watch for this winter (followed by closest area where seen before issue went to press): GOSHAWK (Pa.), HARLEQUIN DUCK (Ocean City), SNOWY OWL (N.Y.), BROWN-CAPPED CHICKADEE (Pa.), BLACK-CAPPED CHICKADEE (Many Md.), BOHEMIAN WAXWING (N.Y.), HOUSE FINCH (Baltimore), PINE GROSBEAK (Allegany Co.), COMMON REDPOLL (N.Y.).



JULY, AUGUST, SEPTEMBER, 1961

Chandler S. Robbins

U. S. Weather Bureau records from Friendship International Airport near Baltimore often are used in this column when we wish to correlate weather conditions with bird migration or with nesting activities. But weather records, like bird observations, can be misleading if reports from only a few areas are examined. During the present season, especially in July and August, the Baltimore area received normal or above-normal rainfall while nearly all the rest of the State suffered from moderate deficiencies or serious drought. Reservoir and pond levels were low, and fair to good numbers of shorebirds were seen by observers who checked the flats left by the receding waters. Nesting success of woodland species was normal, judging by the number of immature birds captured at banding stations.

Table 1 shows the earliest fall arrival dates for the more common fall migrant land birds and for a few species of water birds in the counties where coverage was the best. Several of the species in this table are common summer residents in Maryland; fall arrival dates for these species are based largely on records from banding stations, where sudden influxes of birds with deposits of subcutaneous fat provide evidence of migration. The principal contributors to the migration table are: Western Md. (Allegany, Washington and Frederick Counties: bander Pan Minke, also Mrs. Lloyd Mallonee, Mrs. A. L. Hoffman, Dr. Fritz Scheider; Baltimore County and City--banders C. Douglas Hackman, Melvin Garland, Betsy Schaffer, Mrs. Richard D. Cole; Harford County--banders C. Douglas Hackman, Melvin Garland, Mrs. Richard D. Cole; Prince Georges--banders David Bridge, Chandler S. Robbins, Vernon Kleen, Ted Stiles, also Fritz Scheider; Anne Arundel--Mrs. W. L. Henderson, David Bridge; St. Marys--bander Vernon Kleen, also James Banagan; Cecil--bander Vernon Rossman; Kent--banders Mrs. Edward Mendinhall and G. L. Gardner, also Mr. Edward Mendinhall, Win Ingersoll; Caroline--banders Mr. and Mrs. A. J. Fletcher, also Marvin W. Hewitt, Mrs. Carol Scudder, Mrs. Alicia Knotts, Marguerite Butenschoen; Worcester--Samuel H. Dyke and banders Mrs. Richard D. Cole, C. Douglas Hackman, Chandler S. Robbins, Mrs. Herbert Church, Dr. Bert Haines, Elizabeth Slater, Friel Sanders, A. J. Fletcher, Mrs. Essie Pepper, Dr. Robert K. Burns, Dr. Gordon Meade, Jim Meade, Capt. J. E. M. Wood, Ted Stiles.

Thanks to the efforts of the many active banders in the above list,

Table 1. Fall Arrival Dates, 1961

	W.Md	Balt	Harf	Pr.G	Anne	StMa	Ocdl	Kent	Caro	QA&T	Worc
Canada Goose	9/16	9/17	9/25	9/17	9/16		10/ 2		10/ 4	9/17	9/10
Common Nighthawk				8/22						9/ 4	9/ 4
Red-headed Woodpecker		9/16			10/25		10/22			9/17	9/ 4
Yellow-bellied Sapsucker	9/13	9/24	9/27	10/ 3	9/22			9/23	9/27	10/ 1	9/17
Eastern Phoebe	9/16		9/27	9/16	10/12		9/19	9/18	9/30	10/ 1	9/23
Yellow-bellied Flycatcher	9/ 4	9/19	8/30	9/ 2				9/ 7			9/ 6
Least Flycatcher		9/ 5	8/30	9/16			8/31	9/ 5	9/ 2		9/ 2
Blue Jay		9/16		9/16	9/19		9/16	9/23			9/25
White-breasted Nuthatch	9/ 3	9/16		9/20	9/10		10/20	9/17	9/22	9/16	9/16
Red-breasted Nuthatch	9/ 4	9/ 9		9/17	9/10	9/13	8/ 6	9/ 8	9/ 4	8/25	9/ 2
Brown Creeper	10/ 3	10/25	10/13	10/ 6	10/ 4			10/ 2	9/22	10/ 1	9/22
Winter Wren			10/14	10/18				9/30	11/ 4		9/29
Hermit Thrush		10/ 6	10/28	10/ 7	10/24				10/26	10/ 1	9/27
Swainson's Thrush	9/ 3	9/ 1		9/ 4	9/10	9/ 8	9/ 9	9/ 3	5/ 5		9/ 3
Gray-cheeked Thrush	9/ 3	9/ 9		9/16			9/24	9/ 3	9/24		9/ 5
Veery	9/ 4	9/ 5	9/ 1	9/16	9/21	8/30	9/ 9	9/ 3	9/23		9/ 4
Golden-crowned Kinglet	10/18	10/ 7	10/11	10/ 5			9/29	10/11	10/ 9	10/22	9/29
Ruby-crowned Kinglet		9/19	9/29	9/16	9/18		9/23	9/18	9/ 9		9/22
Solitary Vireo		9/23	9/26	10/15				10/ 6	10/ 9		9/18
Black-and-white Warbler	9/ 4	9/ 9	8/15	9/17	9/20	8/30	8/26	9/ 3	8/25	9/ 6	9/ 2
Blue-winged Warbler	9/ 4		8/14		8/ 5	8/28	7/31		9/ 9		9/ 2
Tennessee Warbler	9/ 4	9/10	9/26	9/17				9/ 4	9/27		9/16
Nashville Warbler	9/ 4	9/10	9/26	9/10			9/ 7	9/23	9/ 5		9/ 6
Magnolia Warbler	9/ 3	9/10		9/ 4	9/20		9/11	9/ 4	9/ 3	9/10	9/ 4
Cape May Warbler	9/ 4	9/16		9/16	9/29		9/20		9/22		9/12
Black-throated Blue W.	9/ 4	9/ 9	9/26	8/29	9/21			9/ 4	9/22	9/17	9/ 4
Myrtle Warbler	10/ 7		10/ 8	10/15	9/10		9/17	9/ 4		9/17	9/23
Black-throated Green	9/ 4	9/16	9/29	9/17			9/23	9/16		9/10	9/12
Blackburnian Warbler	9/ 4	9/16	9/26	9/22				9/12		9/ 6	
Chestnut-sided Warbler	9/ 4	9/10		9/ 2				9/ 7	9/18	9/ 6	9/ 4
Bay-breasted Warbler		9/16		9/17				9/ 4	9/24	9/10	9/16
Black-poll Warbler		9/16	9/27	9/ 4			9/19	9/12		9/17	9/10
Palm Warbler		9/17	10/14	9/16			9/17	10/21		10/22	9/13
Northern Waterthrush		9/ 9		9/ 4		8/31	8/22	9/ 7	8/15		9/ 2
Connecticut Warbler			10/ 1	9/16			9/17		9/14		9/16
Mourning Warbler			8/29		9/26				9/17		
Wilson's Warbler							8/31				9/ 5
Canada Warbler	9/ 4	9/ 4	8/15	9/ 4		8/30	8/19	9/ 4		9/ 3	9/ 2
American Redstart		9/ 8				8/31	8/16	9/ 5	8/25	9/ 3	9/ 2
Bobolink	9/ 4			8/20					8/30		9/ 2
Rose-breasted Grosbeak	9/18	9/16	9/25	9/16		9/ 7	9/17	9/19	9/22	9/17	9/12
Indigo Bunting			9/25	9/ 6				9/27		9/17	9/18
Dickcissel					11/24				8/ 4		9/24
Evening Grosbeak		10/ 4	11/11	10/10	12/ 1		10/21			10/15	10/ 8
Purple Finch	10/ 9	9/17	9/16	9/16			10/ 5	9/16			9/ 6
Rufous-sided Towhee	9/20	10/ 5		10/ 8			9/23				
Savannah Sparrow				10/ 7	9/10			9/22	9/30	10/ 1	9/24
Slate-colored Junco	9/21	10/ 5	10/ 2	10/ 3	10/ 8		10/13	10/ 2	9/30	10/ 1	9/16
White-throated Sparrow	10/ 9	9/29	9/26	9/24	9/22		9/23	9/29	9/27		9/16
Swamp Sparrow			9/29	9/30			10/25	10/ 7			9/16

Operation Recovery stations were in action on either a full-time or part-time basis for from 5 to 29 days in August and/or September at the following locations: Towson, Rock Run Sanctuary (116 birds banded), Laurel-Beltsville (231 birds), Greenbelt (220 birds), Patuxent Naval Air Station (74 birds), Chestertown (894 birds), and Ocean City (2,637). The day-to-day changes in the capture records of these banding stations tell a fascinating story of bird migration in relation to weather conditions

and geographic features. A few examples of the Operation Recovery results will be mentioned here. The full story will not unfold until the individual capture records now being entered on punch cards can be studied in detail.

Loons. The Common Loon was one of many species that were late in arriving because of the long spell of hot weather that gripped the East during most of September. The first Common Loon arrived at Remington Farms on Sept. 4 (Clark Webster). The next southward migrants, both singles, were seen on Sept. 24 and Sept. 26 at the Ocean City netting station, followed by 3 and 6 on the last two days of the month.

Frigate-bird, Herons. A new species was added to Maryland's Hypothetical List on Sept. 24, 4 days after Hurricane Esther passed northward, 125 miles off the coast. The storm waif, a male Magnificent Frigate-bird, was seen briefly in pursuit of a Herring Gull over Ocean City's 36th Street flats by Mr. and Mrs. Gibson Davis of Gaithersburg and by Mrs. Mary Pulley and Helen Walker. Mr. Davis and Helen Walker, who identified the bird independently, had seen the species previously in Florida. A Louisiana Heron was seen at Sandy Point State Park on Sept. 10 (Irving Hampe); and a late individual was seen at Ocean City on Sept. 30 (Robbins). A flock of 32 Snowy Egrets at the Ocean City banding station on Sept. 26 was late for this large a number. Five were still at Patuxent Wildlife Research Center near Laurel on Sept. 30 (Patuxent Bird Club).

Swans, Geese and Ducks. A Mute Swan was at Royal Oak, June 11 to Oct. 24 (Jan Reese). A flock of 50 Canada Geese arrived at Remington Farms near Chestertown on Sept. 16 (Clark Webster), and a flock was noted over Allegany County on the same day. On the next day two flocks (25 over White Marsh--Hackman; 28 over Laurel--Robbins) were seen soon after sunrise; at this time a high pressure cell was centered over the eastern Great Lakes and temperatures in that area had dropped to within 10 degrees of the freezing mark. The now famous Fulvous Tree Duck (Maryland Birdlife 17:67-68) remained at West Ocean City throughout the period and was studied at leisure by scores of observers. Early waterfowl arrivals included Blue-winged and Green-winged Teal at Patuxent Wildlife Research Center on Aug. 7 (Francis M. Uhler), Blue-wing on Aug. 10 and Green-wing on Aug. 15 at Remington Farms (Clark Webster), Green-wing at Unity on Aug. 18 (Low) and at West Ocean City on Aug. 20 (Samuel H. Dyke) and 6 White-winged Scoters at Kent Island on Sept. 10 (Terry Moore). A single Oldsquaw summered at Sandy Point (Walter M. Booth and others).

Eagles. We are listing all eagles reported during the period and we urge all observers to continue to report all the eagles they see and to specify the number of adults and immatures. Walter Booth saw an adult Golden Eagle at Browning Pond near Cranesville Bog in Garrett County on Sept. 15. Bald Eagles were seen as follows: 1 adult near Oxford, about Aug. 20 (Charles Mullican); 1, Garrett County, early September (reported to Booth); 2 adults, White Marsh, Sept. 17 (Hackman); 1 in changing plumage, Rock Run Sanctuary, Aug. 29, and 2 on Sept. 28 (Hackman); 1 ad., Greenbelt, Sept. 16 (Bridge); 1, Sandy Point, Sept. 10 (Baltimore Bird Club); 1 frequently from Sept. 18 on at Gibson Island (Mrs. W. L. Henderson, Mrs. Gail Tappan).

Hawks. The best Broad-winged Hawk flights were observed on Sept. 16, when light northwest winds predominated on the second day after a cold frontal passage: 450 Broad-wings were counted on the 16th at Roth Rock Fire Tower in Garrett County (Booth), 1,288 at White Marsh between 7:05 a.m. and 5 p.m. (Hackman), and 467 at Rocky Gorge Tower between 8:50 a.m. and 3:45 p.m., E.S.T. (Patuxent Bird Club). On the following day the wind shifted to the northeast around 9:30 a.m.; Hackman and the Baltimore Bird Club counted 165 hawks (147 of them Broad-wings) over White Marsh from 7:30 to 9:30, but only 34 hawks (6 Broad-wings) from 9:30 to 5:30 p.m., E.S.T. The last two flights of Broad-wings were witnessed on Sept. 24 (42 at Takoma Park by Booth, 73 at White Marsh by Hackman) and on Sept. 30 (a flock of 18 over Rock Run Sanctuary by Hackman).

Shorebirds, Terns. Terry Moore saw 2 Willets on Reeds Creek near Centerville on the unusual date of June 26. Walter Booth reported Semipalmated Plover at Rocky Gorge Reservoir during September, along with the more regular species: Killdeer, Spotted, Solitary, both yellowlegs, Least, Pectoral and Semipalmated Sandpiper. Single Ruddy Turnstones were at Sandy Point on Sept. 10 (Baltimore Bird Club) and at Gibson Island on Sept. 20-21 (Mrs. Henderson). Terry Moore noted 9 species of shorebirds on Kent Island on Sept. 10; his counts included 50 Greater Yellowlegs, 10 Solitaries, 3 White-rumps and 5 Western Sandpipers. In the Tilghman area on the same day, Jan Reese found 8 species, including 2 Knots. Duvall Jones found a Royal Tern as far up the Bay as Kent Island on Sept. 7.

Woodpeckers. The Red-headed Woodpecker is a regular, but uncommon to rare fall migrant in Maryland. This year, probably because of the acute shortage of acorns in the states to the northeast of us, there have been more reports of migrating birds than contemporary observers can recall. The first bird, an adult, was seen near Leitersburg on Aug. 19, 4 days ahead of the earliest fall migration date on record for Maryland (Mrs. Lloyd L. Mallonee). Five were banded at Ocean City, Sept. 4-29, and one other was seen there. One was at Loch Raven on the Baltimore Bird Club trip on Sept. 16, and 2 flew over White Marsh on the following day (Hackman). For the first time in 6 years, a substantial migration of Downy Woodpeckers was detected at the Ocean City banding station. Totals for the past 4 years, the years with the best coverage, are 2 Downies in 7,248 net-hours in 1958, 10 in 9,638 net-hours in 1959, 7 in 12,052 net-hours in 1960, and 31 in 12,577 net-hours in 1961. The migration was first evident on Sept. 4, and a peak number of 8 was recorded on the 29th. The first Hairy Woodpecker was seen at the Ocean City banding station on Sept. 2. Normally the Hairy does not occur on the barrier beach. The Ocean City banders were astonished to capture 2 Red-bellied Woodpeckers on Sept. 29; although Red-bellies are permanent residents 2 or 3 miles away on the mainland side of Isle of Wight Bay, they have never before been reported from Maryland's barrier beach.

Flycatchers. Eastern Kingbirds were seen regularly along the coast through Sept. 7, although they had departed from most inland locations during August. The last 2 were seen at the Ocean City netting station on Sept. 14; the only later report was of a single individual at Gibson Island on Sept. 23 (Mrs. W. L. Henderson). No Western Kingbird was found

until the last day of September when one was studied by a dozen observers at Ocean City. Another western flycatcher, the Western Wood Pewee, was identified at Ocean City on four September dates (Robbins, Hackman, Meade, Mrs. Cole, Stiles and others); this bird is so similar to the Eastern Wood Pewee that it cannot safely be distinguished in the field except by its song. The identification of 4 Westerns in a total of 19 pewees banded at the Ocean City station suggests that the western bird may occur here in small numbers each year even though it had not been detected east of the Mississippi River states until this fall. Details of this first East Coast record will be published elsewhere. Single Olive-sided Flycatchers were seen at Ocean City on Sept. 6 and Sept. 9 (Hackman) and on Kent Island on Sept. 10 (Terry Moore), and 2 were at Catoctin Mountain on Sept. 4 (Fritz Scheider).

Jays, Ravens. Driven south by a shortage of acorns, Blue Jays staged a heavy flight through Maryland during the latter half of September. The movement reached Maryland quite suddenly on Sept. 16, on which day Hackman saw more than 500 jays over White Marsh; Hackman's highest count was 886 from 7:30 to 9 a.m. on Sept. 24. On the latter date Walter Booth reported 600 over Takoma Park. On the Eastern Shore, where jays normally are comparatively rare, Jan Reese estimated 900 over Tilghman, Sept. 27--Oct. 1. A few strays reached the coast, where they had not previously been witnessed in fall; there were singles at the Ocean City banding station, Sept. 25-27, and a flock of 5 on Sept. 28 (Mrs. Cole and others). A Common Raven was seen from Roth Rock Fire Tower on Sept. 15-16 by Booth.

Nuthatches, Creepers. A heavy southward movement of White-breasted Nuthatches reached Maryland about the same time as the Blue Jay migration. Since this nuthatch breeds in all of Maryland except the Coastal Plain, and since it does not migrate in large flocks by day as does the jay, the influx was best recorded at the banding stations. Red-breasted Nuthatches were conspicuous transients in evergreen woods throughout Maryland during September; 61 were banded at the Ocean City station, Sept. 4-30. In the previous issue we mentioned Miss Schaffer's extraordinary Red-breast dates for Cecil County; the only other arrival date prior to Sept. 2 was Aug. 6, also in Cecil County (Vernon Rossman). A Brown Creeper that arrived in Robbins' breeding population study area at Patuxent Wildlife Research Center just after a brief storm, July 2, was noted regularly through Aug. 5, the last day the area was checked. There was an unusually heavy migration of creepers along the coast during the latter third of September, when 63 were banded at Ocean City. None were recorded west of Chesapeake Bay until Oct. 6!

Vireos. The Warbling Vireo is one of Maryland's rarest fall transients, even though it nests in all except 3 of our counties as well as in all states to the north of us. One banded at Ocean City on Sept. 11 (Hackman, Robbins) is believed to be the first September record for the entire Eastern Shore. The Philadelphia Vireo was not reported in Maryland in the first half of September; 11 were banded at Ocean City, Sept. 16-30, but not one was noted in other parts of the State.

Warblers. Noteworthy early arrival dates included: Black-and-white,

Aug. 2, Cecil County (Rossman); Blue-winged Warbler, July 31, Cecil County (Rossman), and Aug. 5, Patuxent Wildlife Research Center, Anne Arundel County (Bridge, Vernon Kleen, Ted Stiles); Orange-crowned Warbler, 4 banded on Sept. 16 near Chestertown (Mrs. Edward Mendinhall); Myrtle Warbler, 1 banded, Sept. 4 near Chestertown (Mrs. Mendinhall). During the period Aug. 1-9; Vernon Rossman banded an unprecedented total of 13 Worm-eating and 12 Kentucky Warblers, indicating a considerable movement of these two species in Cecil County at that time. Banding totals of 20 Northern Waterthrushes on Sept. 4 and 20 Yellow-breasted Chats on Sept. 29 at Ocean City exceed the highest 1-day fall counts for Maryland. The daily banding totals of the Ocean City and Chestertown Operation Recovery stations demonstrated dramatically the effect of wind direction in concentrating migrants against the Ocean and Bay shorelines. When the wind blew from the northwest or north the migrants occurred in large numbers along the ocean front; conversely, when the wind blew from the east, the concentrations occurred along the eastern edge of Chesapeake Bay. Table 2 shows, for the more common species of warblers, the number banded per 1000 net-hours at Chestertown and at Ocean City on Sept. 6 and 29 (following nights with N to NNE winds) as compared with the number banded per 1000 net-hours on Sept. 7 and 30 (after a shift to ENE or E winds). Totals for the two pairs of dates are combined because some of the figures for a single day are so small.

Table 2. Effect of Wind Direction on Warbler Concentrations

	Wind N or NNE		Wind ENE or E	
	Chestertown	Ocean City	Chestertown	Ocean City
Net-hours	360	938	360	957
Black-and-white	0	17	19	3
Magnolia	0	13	8	7
Blk-throated Blue	6	19	8	4
Blackpoll	0	4	6	6
Ovenbird	8	21	19	6
Northern Waterthrush	0	24	3	11
Yellowthroat	6	17	8	6
Yellow-breasted Chat	3	22	3	4
American Redstart	6	108	3	31

Note that all 9 species were commoner at Ocean City than at Chestertown after northerly winds; that the majority were commoner at Chestertown than at Ocean City after easterly winds; that all but one were commoner at Chestertown after easterly winds than after northerly winds; and that all but one were commoner at Ocean City after northerly winds than after easterly winds. Observers who wish to study migrant land birds on the Coastal Plain of Maryland in fall can benefit greatly by checking local weather conditions and visiting areas where birds seek cover along a peninsula or shoreline.

Tanagers, Finches, Sparrows. Single Summer Tanagers were sighted at Greensboro on Sept. 25 (Hewitt) and Denton on Sept. 27 (Alicia Knotts); the Sept. 27 date is the latest on file for the Eastern Shore. The only Lark Sparrow reported was seen at the Patuxent Naval Air Station, Aug. 1-4 (Vernon Kleen). It is interesting to compare the arrival pattern of two of

our common wintering species, the Purple Finch and the Slate-colored Junco. The Purple Finch was first recorded at Ocean City on Sept. 6 (Robbins), the same day the first one was banded at the Island Beach, N. J., banding station. No other locality reported arrivals until Sept. 16, when migrating birds were noted in Harford, Kent, and Prince Georges Counties and 10 were banded at Ocean City. Early Slate-colored Juncos were banded at Ocean City and Island Beach on Sept. 16, but this species was not seen regularly at coastal locations until Sept. 22 (Island Beach) and Sept. 23 (Cape May and Ocean City). Although as many as 15 were banded at Ocean City on Sept. 29, no other Maryland station reported the junco until Sept. 30, when one was found at Denton (Mrs. Knotts). West of the Chesapeake, arrivals ranged from Oct. 2 to Oct. 15. It is anticipated that techniques for determining the age of juncos will be refined by next fall, so it will be possible to tell whether the early coastal birds are immatures that leave their breeding grounds ahead of the adults and whether the immatures are readily blown off course and so have an entirely different migration pattern from that of the adult birds. Detecting, measuring, and interpreting the differential migration of age and sex groups is a subject of much interest to professional ornithologists at the present time; amateur banders and observers have an opportunity to make significant contributions to these studies.

Patuxent Wildlife Research Center, Laurel

The President's Page (Continued from Page 106)

West of this magnificent range lies the beautiful Flathead Valley, about one hundred miles long and fifteen miles wide.

The elevation of the valley floor is only 3000 feet. It is like a piece of the prairie set in the mountains. The southern end of the valley contains a multitude of glacial potholes, providing superb nesting habitat for waterfowl and shorebirds. The valley contains a number of major areas of particular interest to bird watchers.

In the southwest corner is the 19,000 acre National Bison Range of the U. S. Fish and Wildlife Service. It is primarily an upland area with elevations running from 2600 to 4900 feet above sea level; it serves as a preserve for American bison, elk, mule deer, white-tailed deer, big-horn sheep and antelope. Also in this part of the valley are two national wildlife refuges, Nine-Pipe and Pablo, together comprising 4500 acres of reservoirs, marsh and native grass uplands. Both refuges are surrounded by additional thousands of acres, which have been acquired by the Montana Fish and Game Commission as wildlife management areas and public shooting grounds. Near the Nine-Pipe Refuge is the Kicking Horse Reservoir, also noted for waterfowl and shorebirds. This year Field and Stream listed Nine-pipe and Kicking Horse Reservoirs as two of the 250 hottest bass spots in the country. These reservoirs also abound in rainbow trout.

In the north end of the valley is Flathead Lake, the largest natural body of fresh water, except for the Great Lakes, in the United States. Right in the midst of these fine birding areas, and immediately adjacent to the Nine-Pipe Refuge, is the Allentown Motel with its ex-

cellent restaurant. Allentown is not a community or geographical point--the name comes from the original owner. Allentown Motel is located on U.S. #93 exactly 50 miles north of Missoula and 6 miles south of Ronan.

Since September 8, it has been the pleasure and privilege of my wife and me to live at Allentown. Each unit of the motel has two large picture windows. The east window looks out immediately on a reflecting pool to the 10,000 ft. snow-capped peaks of the Mission Range. The west window looks out across the Nine-Pipe Refuge and southwest to the National Bison Range. The views from these windows are so indescribably beautiful and so frequently changing, because of cloud and sun effects, that we find ourselves constantly walking from one window to the other. From both windows many species of birds can be observed.

Breakfast beside the east window is a time-consuming procedure because we watch Red-necked Grebes, Pied-billed Grebes, and various species of ducks busily rearing and feeding young in the pond. Black and Foster's Terns and gulls course back and forth over the pond. Snipe and Great Blue Herons feed around the margin. Large flocks of Canada Geese can be seen flying back and forth between Kicking Horse Reservoir and Nine-Pipe Refuge. An occasional Bald or Golden Eagle sails over.

At dusk, from the west window, Short-eared Owls may be seen flapping over the Nine-Pipe marshes. Nine-Pipe is an irrigation reservoir. In late summer the drawdown of water exposes the lake bed and vast flats of *Eleocharis*. Shorebirds of many species are attracted, including small sandpipers, both dowitchers, both yellowlegs, Black-bellied and Golden Plover, and rarities such as Sanderling. As the autumn progresses, thousands of ducks and geese move in for the winter. Large flocks of Snow Geese and some swans stop by.

The valley has a delightful climate the year around. At no season is there such humidity as one finds around Washington and Baltimore. To the visitor who has based his concept of Montana winters upon reports of cold and blizzards in other parts of the state, the valley is unexpectedly and extremely mild. The mountains to the north and east keep the cold winds and snow of the Northern Plains from coming in and also trap here the warmer air coming from the Pacific.

It would take many pages to describe the species of birds, some 200, that may be observed here. The birder who plans a trip to either Glacier or Yellowstone, or both, and does not include a stopoff of at least a few days at Allentown, is missing a most scenic area and a fabulous opportunity for birding. The transcontinental traveler touring either U.S. #2 or #10 can reach this valley by a short side trip. We strongly recommend that any birders planning trips West be sure to visit the Flathead Valley.

Your President plans to return to Maryland in mid-December and will be prepared to give illustrated talks on "The Valley Beyond the Shining Mountains" at chapter meetings.

Seth H. Low



JUNIOR ACTIVITIES

EARLY ARRIVAL OF NESTING RED-HEADED WOODPECKERS

Ann Taylor

As I was leafing through *Birds of Maryland* and the District of Columbia, I noticed that my 1960 arrival date for the Red-headed Woodpeckers (*Melanerpes erythrocephalus*) that breed where Chinquapin Run crosses Woodbourne Avenue, Baltimore, was earlier than the earliest date given, March 31, 1890. The first date I recorded was March 7, 1960, but one bird had been seen several times before that. No birds were noted at any time during the previous fall or winter, but they have been observed by various people at several points along the stream in the springs of the past six or seven years.

One bird was noted at about 8 a.m. on the following days: March 7, 17, 29, April 4, 26, and May 3. Then on May 3 at about 3 p.m. three Red-headed Woodpeckers were noted at the same time. Two were chasing each other and fighting while a third stood by and watched. Two of the birds were again seen on May 13, and one on May 22, May 24, and June 8. On June 9 one bird was tracked to its nest site, where it was observed again on June 10. Because of my absence during the summer no further observations were made of the nesting activity.

1540 Northbourne Road, Baltimore 12

COMING EVENTS

- Jan. 5 HARFORD Film on birdlife and narration by Mr. David Smith.
- Jan. 6 BALTIMORE trip to Loch Raven. Meet 8 a.m. Hutzler's lot, Towson. Leader: Mr. Charles Buchanan.
- Jan. 12 TALBOT Audubon Wildlife film. Mt. Pleasant School, 8 p.m.
- Jan. 12-14 BALTIMORE motor trip to Cape Hatteras. Call Mr. William Corliss - NO8-6047.
- Jan. 13 PATUXENT feeding station trip, 8A Ridge Rd., Greenbelt, 8 a.m.
- Jan. 13 BALTIMORE Jr. walk at Cylburn, 8 a.m.
- Jan. 13-14 BALTIMORE trip to favorite locality. Invite a friend.
- Jan. 14 SOLDIER'S DELIGHT winter bird walk. Meet at Distillery on Bonita Avenue.
- Jan. 17 ALLEGANY monthly meeting. "A Guide to the Best Nature and Conservation Books," presented by Mr. Ken Hodgdon.
- Jan. 19 BALTIMORE monthly meeting. 8 p.m. Lecture by Ralph Lawrence.
- Jan. 19 TALBOT monthly meeting. 8 p.m. Eastern Library. Mr. Banko

- Jan. 21 BALTIMORE trip to Patuxent Refuge. Meet 8 a.m. Montgomery Wards Parking Lot. Leader: Mr. Malcolm Thomas.
- Jan. 27 ANNE ARUNDEL bird walk. Davidsonville, Road, Gambrills, Md.
- Jan. 27 BALTIMORE Jr. walk at Cylburn, 8 a.m.
- Jan. 27 PATUXENT trip, to Patuxent Refuge. 8-12. Meet at main gate.
- Jan. 28 BALTIMORE covered dish supper. Meet Lake & Roland Aves. 2:30 p.m. for bird walk. Phone HO7-0676.
- Feb. 1 PATUXENT stargazing trip, 314 Bond Mill rd. 7:30 p.m. Getchell.
- Feb. 3 BALTIMORE beginners walk at Cylburn. Meet 8 a.m. B. Schaffer.
- Feb. 3 SOLDIER'S DELIGHT trip to Carroll County. 9 a.m. Meet at Forest Inn on Westminster Pike.
- Feb. 4 BALTIMORE trip to Druid Hill Park Waterfowl Lake. Meet at Mansion House 2:30 p.m. Leader: Mr. Ernest Adams.
- Feb. 10 ANNE ARUNDEL business meeting. 8 p.m. at Valley Park Farm in Edgewater. Program: Phases of Ecology.
- Feb. 10 BALTIMORE Jr. trip to Cylburn. 8 a.m.
- Feb. 10 PATUXENT trip 8-12 for best birds in area. Call PA5-1176.
- Feb. 16 TALBOT monthly meeting. Easton, Library, 8 p.m.
- Feb. 17 PATUXENT trip to Sandy Pt. 8:15-12. Meet 4th & Montg'y, 7:30
- Feb. 18 TALBOT trip to Ocean City. Meet Easton Library 8 a.m.
- Feb. 21 ALLEGANY monthly meeting. Film: "George Washington's River." Discussion leader: Miss Nan Livingston.
- Feb. 21 TALBOT Audubon Wildlife Film. Mt. Pleasant School, 8 p.m.
- Feb. 24 ANNE ARUNDEL early bird walk. Meet at 101 Old Crossing Lane. Leader: Capt. & Mrs. J.E.M. Wood, CO3-3229.
- Feb. 24 BALTIMORE Jr. walk at Cylburn. Meet 8 a.m.
- Feb. 25 BALTIMORE banding demonstration. Mrs. Cole's 9-12 a.m.
- Feb. 27 PATUXENT monthly meeting, Laurel City Hall, 7:45 p.m. "The Valley Beyond the Shining Mountains" by Seth H. Low.
- Mar. 2 HARFORD monthly meeting. Members report on 1961-62 vacations illustrated with slides and movies.
- Mar. 4 BALTIMORE trip to Brigantine Nat'l Wildlife Refuge. Meet Edgewood Diner, 6:30 a.m. Mr. & Mrs. Malcolm Thomas.
- Mar. 5 SOLDIER'S DELIGHT meeting at Worthley's, 8:30 p.m. Talk on spring flowers by Mrs. Schaffer.
- Mar. 10 BALTIMORE Jr. walk to Cylburn. Meet 8 a.m.
- Mar. 10 BALTIMORE trip to Woodstock. Meet northeast side Gwyn Oak Jct. 7:30 a.m. Percy Jones.
- Mar. 10 PATUXENT duck trip to local lakes. Meet Patux, main gate 7:30
- Mar. 15 TALBOT Audubon Wildlife Film. Mt. Pleasant School, 8 p.m.
- Mar. 16 BALTIMORE monthly meeting. Paid lecture by Dr. Arthur Twomey.
- Mar. 18 BALTIMORE trip to Aberdeen Proving Grounds. Meet Edgewood Diner 8 a.m. Leader: Douglas Hackman.
- May 5 Statewide Bird Count.
- May 11-13 ANNUAL CONVENTION, Hastings Hotel, Ocean City.

MARYLAND BIRDLIFE

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